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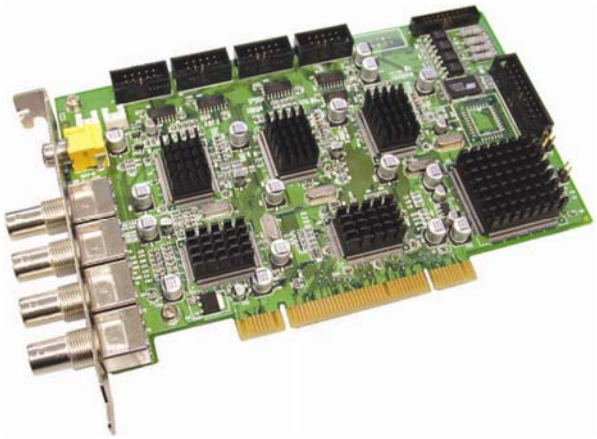
NV Series
Capture Card Solutions

NV5000

Affordable hybrid entry-level capture card solution; best for convenience stores and small businesses



Overview

- Affordable hybrid entry-level capture card solution; best for convenience stores and small businesses
- 4 channels Video and up to 4 channels optional Audio input with Real-Time recording
- Brand new user interface tailored for wide screen monitors (1680x1050 and 1440x900)
- POS Integration allows for easy association of retail transaction data and corresponding video images
- Integrated remote functionality allows access to video footage anywhere, anytime!

NV5000 Specifications

CPU	Pentium 4® 3.0 GHz or higher
Operating System	Windows 2000®, Windows XP® or Windows VISTA®
Hybrid	Yes - use any combination of IP or Analog inputs
IP Camera Support	Over 100 major IP camera brands supported including Megapixel
Video Format	NTSC or PAL
Software Compression	MJPEG, MPEG4 and H.264
Video Output	CCTV, TV or LCD monitors
Video Input	4 channels - BNC connectors (stackable for up to 16 channels)
Audio Input	Up to 4 channels with optional expandable card
Display Rate	120 fps
Recording Frame Rate	120 fps
Recording Resolution	up to 720x480
User Access	Unlimited number of users with individual passwords and tiered user privileges
Sensor/Relay	Built in 4 sensors and 3 relays; Expandable up to 132 sensors and 131 relays via an E-I/O box
User Interface:	
Type	Graphical User Interface
Modes	Compact and Advanced modes
Display Formats	Auto scan with 1, 4, 8, 9, 13 or 16 split screen for monitoring and playback
E-Map Specifications	Store up to 8 maps with up to 8 angles for camera (including name), sensor and relay positions
Night View Ability	Yes
Digital Zoom	Yes
Pan-Tilt-Zoom Control	Control for both IP and Analog cameras
Multiple Languages	Yes
Video Quality Settings	Yes
Over Heat Detection	Yes
External Device:	
Dual Monitor Support	Yes
Spot Monitor Support	Yes
POS Integration	Yes
Recording Features:	
Recording Modes	Continuous, Scheduled, Motion Detection, Sensor trigger, Alarm trigger and Smart recording
HDD Size Estimation Tool	Yes - Will estimate HDD size and expected recording time based on HDD size and recording settings
Video Encryption	Yes
Video Shield	Yes
Video Mask	Yes
Recycle Recording	Yes
Video Loss Detection	Yes
Event Log	Yes
Auto Record after Reboot	Yes
Playback Features:	
Video Search	Yes
Watermark Verification	Yes
Playback Software on PC	Yes
Playback Availability	Playback while recording or setup. With Dual Monitors - watch playback and live video simultaneously
Playback Control	Play, rewind or fast-forward footage including frame-by-frame control with real time access
Video Optimization	Digitally zoom in to specific areas on the video footage
Export Functions	Export single frames to BMP files or export video clips to AVI files with time and date stamp
Search Features:	
Visual Search	Yes
Search Criteria's	Search by date, time, camera, event and event logs
Bookmark Function	Yes - Bookmark important footage for fast access

Search Features (continued):	
Watermark Verification	Yes
Export Functions	Export single frames to BMP files or export video clips to AVI files
Back-up:	
Back-up features	Manual or schedule backup
Backup Functions	Direct burn to CD/DVD-RW
Alarms/Sensors/Relays:	
Alarm Trigger Notifications	E-map - E-map is launched with active camera highlighted and monitoring footage displayed
	FTP - Still images of event footage are automatically saved to specified FTP sites
	Phone - Installed Voice-Fax modem calls specified phone number and plays pre-recorded message
	Relay - System will turn on lights, lock gates, sound an external alarm, etc.
	Record - System will start capturing video footage from different angles on multiple cameras
	Spot Monitor - Will automatically display E-map and event footage on spot monitor
	Text Message - If DVR is SMS modem enabled, then a text will be sent to specified phone number
	CM3000 - Event information will be automatically generated in the CM3000 for follow-up
Video Intelligence	Yes
I/O Box Support	Built in 4 sensors and 3 relays; Expandable up to 132 sensors and 131 relays via an E-I/O box
Remote Accessibility:	
Remote Accessibility	WebViewer - 1, 4, 8, 9, 13 or 16 split screen views with PTZ control for hybrid cameras
	PDAViewer - View video footage on a PDA in 1 or 4 split screens
	HandyViewer/SmartViewer - View video footage on compatible cell phones
	CM3000 - Control and manipulate up to 1000 DVRs remotely; Includes hybrid PTZ and E-Maps
	Remote Console - Remotely monitor, record or playback video footage
Audio	2-way audio communication through WebViewer, Remote Console or CM3000
Pan-Tilt-Zoom	Yes - Both IP or Analog cameras through WebViewer or CM3000
Backup	Yes
Dynamic DNS	Yes
Connection Types	Internet or LAN speeds
Video Quality:	
De-Interlacing	Yes for Static or Dynamic footage
Noise Reduction	Yes
Image Balance	Yes - Auto Gain Control (AGC) balance image quality
iEnhance Software	Yes - optimizes recorded video footage
iStable Software	Yes - smoothes video footage
Scheduling Abilities:	
Schedulable Functions	Record, network enable, backup, reboot, alarm and relay controls
Allocations	Functions can be scheduled in 15 minute, 30 minute, 45 minute or 1 hour increments
	Set for a one-time event or on a weekly repeating schedule

Security Product Hardware Recommendation List

Requirements:

- CPU: Pentium 4, 3.0 GHz or higher
- OS: Windows 2000/XP/Vista Professional
- RAM: 512MB
- HDD : 80GB or higher
- CD-RM/DVD-RM
- 32-bit high color SVGA graphics card with 64MB video memory and DirectDraw/YUV Rendering Capability
- 10/100 Base-T Ethernet card
- Sound card and speaker

Recommendation List:

Note: Based on Intel's suggestion, for all of Microsoft Windows XP Operating Systems, Hyper-Threading must be disabled in the system BIOS Setup program (see FAQ for procedure) for our DVR products.
For the most stable security DVR system, we strongly recommend NOT using VIA/SiS/ALi chipsets and SiS VGA chips with our products due to their severe limitation of the chipset design.
*Please make sure you are using the standalone VGA card with 128 MB memory above instead of built-in onboard VGA card in order to ensure the working stability and performance of the NV/NX series software.

NV3000/5000

Motherboard

Our products support most of the current Intel chipset for motherboards. Intel 848, 865, 875, 915, 925, 945, 955,965,P35, nVidia nFORCE4 SLI - Intel Edition, nVidia nForce3 250Gb Platform Processor chipsets

Below is a list of Motherboards that our Validation labs have tested; however, we do support beyond the motherboards tested in our lab

Brand	848	865	875	915	925
Asus	P4P800 SE	P4P800	P4C800	P5GD1 Pro	P5AD2 Premium
		P4P800-VM			
		P4P8X			
		P5P800			
Gigabyte		GA-8IPE1000	GA-8IK1100	GA-8I 915G -Duo	GA-945PL-S3 (Rev 2.0)
		GA-8IG1000Pro-G	GA-8I875		
MSI			875P Neo FISR	915G Combo	
Epox				EP-5EPA+	
Intel					D925XCV

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Brand	945	955	965	P35	nVidia nForce4 SLI - Intel Edition
Asus	P5LD2		P5B Deluxe/Wi	P5K SE	P5ND2-SLI Deluxe
	P5LD2-VM		Fi-AP		
	P5PL2-E				
Gigabyte	GA-8I945P-G	GA-8I955X Pro	GA-965P-DS3P (Rev 3.3)		
	GA-8I 945G -MF	GA-8I955X Royal			
	GA-945PL-S3 (Rev 2.0)				
MSI					
Epox					
Intel					

Brand	AMD Socket	
	nVidia nForce3 250Gb Platform Processor	nVidia nForce 570 SLI
Gigabyte	GA-K8NSC-939	GA-M57SLI-S4

Graphic Card

Our products support most of the current Graphic Chipset on the market today. Below is a list of Graphics Cards that our Validation Labs have tested; however, we do support beyond the hardware listed below

Support ATi: Radeon 8500/9000/9200/9550/9600/9700/9800/X300/X550/X700/X800
Support nVidia: GeForce4 FX/GeForce MX/GeForce FX 5200/GeForce FX 5600/GeForce FX 5900/GeForce 6200 GeForce 6600/GeForce 6800

Below is a list of Graphic Cards tested:

ATI Chipset	8500	9700	9800	X300	X550	X700	X800
ATI	ATI 8500	ATI 9700 Pro					
Asus	A7000			EAX300SE	EAX550GE	EAX700	EAX800 (Pro/2DTV)
				EAX300SE/TD		EAX700/TD/ 256M /A	
Gigabyte			GV-R98P128D				GV-RX70128DE
			GV-R98X256D				
nVidia Chipset	GeForce4 FX	GeForce FX (5200)	GeForceFX (5600)	GeForceFX (5900)	GeForce (6200 TC)	GeForce (6600)	GeForce (6800)
ASUS	ASUS V9480		ASUS V9560				
ELSA	ELSA 525		ELSA 732	ELSA 935			
	ELSA 728						
Gigabyte	GV-N4464TE	GV-N52128DS			GV-NX62TC128D	GV-NX66128D	GV-NX68256D
LEADTEK	WinFast A170		WinFAST A310		GV-NX62TC256D8	GV-NX66128DP	
	WinFast A280						
MSI							
						NX6600-TD128E	

ATI Chipset	X700	X800
ATI		
Asus	EAX700	EAX800 Pro/2DTV
	EAX700 / TD / 256M / A	
Gigabyte		GV-RX70128DE
nVidia Chipset	GeForce 6600	GeForce 6800
ASUS		
ELSA		
Gigabyte	GV-NX66128D	GV-NX68256D
	GV-NX66128DP	
LEADTEK		
MSI	NX6600-TD128E	

PTZ Camera [Please click here for the full IP camera support list]

Brand	Product Number
DynaColor	All products
Pelco	Pelco-D
	Pelco-P
Lilin	PIH 717X / 7000 / 7600
Sony	15-CZ45-1
DMP23-H2	DMP23-H2
MD101	all products
CD55	all products
NiceCam	all products
Yoko	all products
DiGiDome	DRX -502A (DOH-240)
SamSung	SCC-641
Canon	VC-C4R
Panasonic	WV-CS850 / WV-CW860
Eastel	all products

USB to Serial Hubs, could be compatible with POS Series, PTZ Camera, and UPS Series

Brand	Product Number
MOXA	Uport 1410

Raid System

Brand	Product Number
Stardom	SR3610-2S-SB2

PDA Basic requirement

Notice: This feature is only available on version 5.1 or above AP. For customers who are using 5.0 version of AP, please visit the Support/Download page to download and upgrade to the latest version of AP

1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: Microsoft Window Pocket PC 2002/2003 or Mobile 5 above.
3. GPRS or WLAN module is recommended.

Windows Mobile Smartphone Basic Requirement

Notice: This feature is only available on version 5.7 or above AP. For customers who are using v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP

1. CPU: Arm architecture, for example, Intel Xscale.
2. OS: Windows-base, Windows Mobile 2002/2003 for Smart Phone Edition or Windows Mobile version.
3. Network module such as WAP,GPRS,WLAN....etc is required .

Symbian Smartphone Basic Requirement

Notice: This feature is only available on version 7.1 or above AP. For customers who are using v5.7, v.5.5, v5.1 or v5.0 version of AP please visit the Support/Download page to download and upgrade to the latest version of AP

1. OS:Symbian Smartphone
2. The OS need to support JAVA MIDP 2.0(JAVA2 ME)
3. Network module such as WAP, GPRS, WLAN …etc is required.

*Hardware recommendation is the minimum required hardware specification for running our system, not a guarantee to achieve the best performance of our DVR system. Hardware specifications required to achieve the best performance of our DVR system are subjected to different system settings and operation conditions.